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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/717,579	11/21/2000	Curtis E. Jutzi	042390.P9907	2132
8791	7590 01/12/2006	EXAMINER		INER
BLAKELY	SOKOLOFF TAYLOR	VU, NO	VU, NGOC K	
12400 WILS SEVENTH F	HIRE BOULEVARD		ART UNIT	PAPER NUMBER
02.12.12.2	LES, CA 90025-1030		2611	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/717,579	JUTZI, CURTIS E.			
	Office Action Summary	Examiner	Art Unit			
		Ngoc K. Vu	2611			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. 0 (35 U.S.C. § 133)			
Status						
1)⊠	Responsive to communication(s) filed on 17 Oc	ctober 2005.				
	· · · · · · · · · · · · · · · · · · ·	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E					
Dispositi	ion of Claims					
4)⊠	4) Claim(s) <u>1-3,6-17,20-31,34-45 and 48-55</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
6)⊠	6) Claim(s) <u>1-3,6-17,20-31,34-45 and 48-55</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examiner	•				
10)	The drawing(s) filed on is/are: a) ☐ acce	epted or b) \square objected to by the E	xaminer.			
	Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
_		or the sertified copies not received	4.			
Attachment	t(s)					
1) 🛛 Notice	e of References Cited (PTO-892)	4) Interview Summary (PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dat	e			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa	itent Application (PTO-152)			

Response to Arguments

1. Applicant's arguments with respect to claims 1-3, 6-17, 20-31, 34-45 and 48-55 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 6-15, 20-29, 34-43 and 48-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (US 5,905,713 A) in view of Gusella et al. (US 5,408465 A) and further in view of Gangitano (US 6,580,452 B1).

Regarding claim 1, Anderson teaches an apparatus (figures 1 & 5) comprising:

a digital television receiver (64 within device 63) to receive a digital television broadcast signal, the digital television broadcast signal including a data test stream (38) having a plurality of data packets, and

an analyzer logic (68) to verify the integrity of the digital television broadcast signal and to cause the verification error or results to be displayed (see col. 6, lines 1-6, 40-43, 55-57);

wherein the analyzer logic measures a number of data packets of the data test stream received by the digital television receiver over predetermined interval (it is noted that the verify function tests the semantics and sequencing of the sequencing of the packet stream over a

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predetermined interval, i.e., before displaying the verification results – see col. 6, lines 44-52; col. 7, lines 32-36).

Anderson does not teach determining a data packet loss percentage value for the data stream by calculating a ratio of the measured number of data packets received by the digital receiver and a number of data packets that should have been received by the digital receiver. However, Gusella discloses that a data loss ratio could be measured as a ratio of lost packets to successfully received packets (see col. 8, lines 19-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by measuring a data loss ratio as a ratio of lost packets to successfully received packets as disclosed Gusella in order to accurately determine error of data reception in the network.

Anderson does not teach displaying a service level of signal based upon a loss of data packets. However, Gangitano teaches detecting a loss of received signal and presenting a signal loss on-screen notification (see col. 2, lines 45-50 and figure 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by detecting a loss of received signal and presenting a signal loss on-screen notification as taught Gangitano in order to effectively provide an improved means for displaying received signal strength.

Regarding claim 15, Anderson teaches a method comprising:

receiving a digital television broadcast signal that includes a data test stream (38) having a plurality of data packets;

determining the integrity of the digital television broadcast signal via an analyzer logic and to cause the verification error or results to be displayed (see col. 6, lines 1-6, 40-43, 55-57);

wherein the analyzer logic measures a number of data packets of the data test stream received by the digital television receiver over predetermined interval (it is noted that the verify function tests the semantics and sequencing of the sequencing of the packet stream over a predetermined interval, i.e., before displaying the verification results – see col. 6, lines 44-52; col. 7, lines 32-36).

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Anderson does not teach determining a data packet loss percentage value for the data stream by calculating a ratio of the measured number of data packets received by the digital receiver and a number of data packets that should have been received by the digital receiver. However, Gusella discloses that a data loss ratio could be measured as a ratio of lost packets to successfully received packets (see col. 8, lines 19-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by measuring a data loss ratio as a ratio of lost packets to successfully received packets as disclosed Gusella in order to accurately determine error of data reception in the network.

Anderson does not teach displaying a service level of signal based upon a loss of data packets. However, Gangitano teaches detecting a loss of received signal and presenting a signal loss on-screen notification (see col. 2, lines 45-50 and figure 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by detecting a loss of received signal and presenting a signal loss onscreen notification as taught Gangitano in order to effectively provide an improved means for displaying received signal strength.

Regarding claim 29, Anderson discloses a machine-readable medium having stored thereon instructions (software or programs stored within device 63 - see figure 5), which when executed by a processor, causes the processor to perform the following:

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receiving a digital television broadcast signal that includes a data test stream (38) having a plurality of data packets;

determining the integrity of the digital television broadcast signal via an analyzer logic and to cause the verification error or results to be displayed (see col. 6, lines 1-6, 40-43, 55-57);

wherein the analyzer logic measures a number of data packets of the data test stream received by the digital television receiver over predetermined interval (it is noted that the verify function tests the semantics and sequencing of the sequencing of the packet stream over a predetermined interval, i.e., before displaying the verification results – see col. 6, lines 44-52; col. 7, lines 32-36).

Anderson does not teach determining a data packet loss percentage value for the data stream by calculating a ratio of the measured number of data packets received by the digital receiver and a number of data packets that should have been received by the digital receiver. However, Gusella discloses that a data loss ratio could be measured as a ratio of lost packets to successfully received packets (see col. 8, lines 19-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by measuring a data loss ratio as a ratio of lost packets to successfully received packets as disclosed Gusella in order to accurately determine error of data reception in the network.

Anderson does not teach displaying a service level of signal based upon a loss of data packets. However, Gangitano teaches detecting a loss of received signal and presenting a signal loss on-screen notification (see col. 2, lines 45-50 and figure 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by detecting a loss of received signal and presenting a signal loss on-

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screen notification as taught Gangitano in order to effectively provide an improved means for displaying received signal strength.

Regarding claim 43, Anderson teaches a system comprising:

a digital television receiver (64 – see figure 5) to receive a digital television broadcast signal, the digital television broadcast signal including a data test stream (38) having a plurality of data packets, and

an analyzer logic (68) to verify the integrity of the digital television broadcast signal and to cause the verification error or results to be displayed (see col. 6, lines 1-6, 40-43, 55-57);

wherein the analyzer logic measures a number of data packets of the data test stream received by the digital television receiver over predetermined interval (it is noted that the verify function tests the semantics and sequencing of the sequencing of the packet stream over a predetermined interval, i.e., before displaying the verification results – see col. 6, lines 44-52; col. 7, lines 32-36).

Anderson does not teach determining a data packet loss percentage value for the data stream by calculating a ratio of the measured number of data packets received by the digital receiver and a number of data packets that should have been received by the digital receiver. However, Gusella discloses that a data loss ratio could be measured as a ratio of lost packets to successfully received packets (see col. 8, lines 19-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by measuring a data loss ratio as a ratio of lost packets to successfully received packets as disclosed Gusella in order to accurately determine error of data reception in the network.

Anderson does not teach displaying a service level of signal based upon a loss of data packets. However, Gangitano teaches detecting a loss of received signal and presenting a

signal loss on-screen notification (see col. 2, lines 45-50 and figure 5). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Anderson by detecting a loss of received signal and presenting a signal loss on-screen notification as taught Gangitano in order to effectively provide an improved means for displaying received signal strength.

Regarding **claims 6-8, 20-22, 34-36 and 48-50,** the combined teachings of Anderson, Gusella and Gangitano include measuring a data loss ratio as a ratio of lost packets to successfully received packets and presenting a signal loss on-screen notification to indicate the service level of the digital television broadcast signal (see Anderson: col. 6, lines 44-52; col. 7, lines 32-36; Gusella: col. 8, lines 19-22; Gangitano: col. 2, lines 45-50 and figure 5).

Regarding **claims 9, 23, 37 and 51**, the combined teaching of Anderson and Gusella as modified by Gangitano shows signal loss on-screen notification (see Gangitano: figure 5). They fail to teach a bar shape meter indicating a service level range from 0% to 100%. It would have been obvious to one of ordinary skill in the art to modify the combined system of Anderson, Gusella and Gangitano by providing a bar shaped meter indicating the reception condition range from 0%-100" in order to visually provide the reception condition in an accurate manner.

Regarding claims **10, 24, 38 and 52**, the combined system of Anderson, Gusella and Gangitano includes that the service level is updated at predetermined intervals, e.g., per unit time when deterring the received packet stream (see Anderson: col. 5, lines 50-52).

Regarding **claims 11, 25, 39 and 53**, the combined system of Anderson, Gusella and Gangitano teaches that the display device is a television (see Anderson: figure 1; Gangitano: figures 3-5).

Regarding claims 12, 14, 26, 28, 40, 42 and 54, the combined system of Anderson,
Gusella and Gangitano teaches receiving the broadcast signal via a terrestrial broadcast station
network (see Anderson: col. 3, lines 50-54).

Regarding claims **13, 27, 41 and 55**, the combined system of Anderson, Gusella and Gangitano teaches receiving the broadcast signal via a satellite network (see col. 3, lines 45-50).

4. Claims 2, 3, 16, 17, 30, 31, 44 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (US 5,905,713 A) in view of Gusella et al. (US 5,408465 A) and further in view of Gangitano (US 6,580,452 B1) and further in view of Mao et al. (U.S. 6,459,427 B1).

Regarding claims 2, 3, 16, 17, 30, 31, 44 and 45, Anderson does not explicitly disclose the data stream includes an Internet Protocol (IP). However, Mao discloses a digital TV receiver for receiving Internet data over digital broadcast TV network. Basically, the data and control information can be carried over MPEG-2 transport streams. The HTML pages and their control map information are either mapped directly onto the sections of the MPEG-2 transport stream or mapped through an intermediate layer such as UDP/IP and then encapsulated in the sections of the MPEG-2 transport stream. Mao further discloses that on the client side, a control block 240 allows the consumer to navigate 250 according to particular protocols 260, for example, UDP, and/or IP 270 (see abstract; col. 6, lines 7-12; col. 7-8, lines 63-3). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined system of Anderson, Gusella and Gangitano by providing IP data with MPEG-2 transport streams as disclosed by Mao in order greatly desired to provide Internet service with the television program to the consumer over digital broadcast TV network.

Further regarding **claims 3,17, 31 and 45**, the combined system of Anderson, Gusella and Gangitano as modified by Mao further includes the MPEG-2 is segmented and carried over MPEG-2 transport packets, which can be filtered through the PID (packetID) by the decoder (see Mao: col. 8, lines 5-8).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc K. Vu whose telephone number is 571-272-7306. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on 571-272-7294. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngoc K. Vu Primary Examiner Art Unit 2611